







charge in	n cfs				Total Red	coverable I	ron Coeff	icients
	Intercept c	oefficient		'				ntercept
	•		.ow Flow Nove	mher-March	A	72	0.290	967.14829
M34	-2.771	0.394				134		213.03711
CC48	1.752	0.130	-2.28954	0.38718		C48		
			6.77165					6149.71503
A68	-11.131	0.498	-3.62869	0.45153	A	68	0.000	417.72851
Discharge R	Relationships am	ana the three	nanes					
Discharge 1		J	F	М	Α	M	J	J
	Intercept	1	1	 1	1	1	1	1
	A 72	64	63	77	155	682	1196	624
	M34	22	22	28	58	266	468	243
	CC48	14	13	15	22	91	158	83
	A68	25	25	31	66	329	585	300
	Ground wate	3	3	3	9	-3	-14	-2
1/(1+BQ) Di	scharge Represe							
	A 72	0.0511	0.0519	0.0429	0.0218	0.0050	0.0029	0.0055
	M34	0.4915	0.4959	0.4413	0.2718	0.0756	0.0444	0.0821
	CC48	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119
	A68	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Date variabl	es							
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1	1	1	1	1	1	1
A72	Intercept	1	1	1	1	1	1	1
	BQ '	0.0511	0.0519	0.0429	0.0218	0.0050	0.0029	0.0055
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent							
A72 Con	centration	4400	4835	4503	3201	2015	1663	1522
M34	Intercept	1	1	1	1	1	1	1
	BQ	0.4915	0.4959	0.4413	0.2718	0.0756	0.0444	0.0821
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
M34 Concer		4848	4871	4578	3670	2618	2451	2653

CC 48	Intercept	1	1	1	1	1	1	1	
	BQ	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
CC 48 Cor	ncentratrion	9912	9699	8832	7285	5433	4412	4134	
A68	Intercept	1	1	1	1	1	1	1	
	BQ	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent								
A68 Co	ncentration	432	560	644	673	633	534	406	
Concentrat	tioı	2640	2715	2611	2171	1626	1492	1530	
Load in po	unds per day								
	Sum	1410	1398	1547	2361	7515	11521	5979	
	A72	1521	1645	1872	2680	7420	10739	5127	
	% Difference	-0.07	-0.15	-0.17	-0.12	0.01	0.07	0.17	
	RPD	-0.08	-0.16	-0.19	-0.13	0.01	0.07	0.15	

tal Recoverable Iron	Coefficien	its		
BQ s	sin d	cos		
70284.48741	672.13924	-267.91244		
5360.03508	515.84443	1296.14462		
21591.29071	532.89897	2218.80854		
0	254.47374	-25.25660		
	-			
А	S	0	N	D
1	1	1	1	1
268	187	142	92	70
103	71	53	33	25
37 122	26 82	20 60	16 38	14
6	8	9	30 4	28 3
Ŭ	O	J	7	O .
0.0127	0.0181	0.0237	0.0361	0.0469
0.1746	0.2348	0.2903	0.3948	0.4670
0.0265	0.0368	0.0470	0.0572	0.0660
1.0000	1.0000	1.0000	1.0000	1.0000
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573
-0.7789	-0.3521	0.1556	0.6361	0.9340
0.9769	0.6591	-0.3074	-0.9816	-0.6674
0.2135	-0.7521	-0.9516	-0.1908	0.7447
1	1	1	1	1
1	1	1	1	1
0.0127	0.0181	0.0237	0.0361	0.0469
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573
-0.7789	-0.3521	0.1556	0.6361	0.9340
0.9769	0.6591	-0.3074	-0.9816	-0.6674
0.2135	-0.7521	-0.9516	-0.1908	0.7447
1647	1705	1928	2817	3777
1	1	1	1	1
0.1746	0.2348	0.2903	0.3948	0.4670
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573
-0.7789	-0.3521	0.1556	0.6361	0.9340
0.9769	0.6591	-0.3074	-0.9816	-0.6674
0.2135	-0.7521	-0.9516	-0.1908	0.7447
1.0000	1.0000	1.0000	1.0000	1.0000
3149	3471	3769	4329	4716

1	1	1	1	1	
0.0265	0.0368	0.0470	0.0572	0.0660	
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573	
-0.7789	-0.3521	0.1556	0.6361	0.9340	
0.9769	0.6591	-0.3074	-0.9816	-0.6674	
0.2135	-0.7521	-0.9516	-0.1908	0.7447	
1.0000	1.0000	1.0000	1.0000	1.0000	
4660	5665	6984	8386	9457	
1	1	1	1	1	
1.0000	1.0000	1.0000	1.0000	1.0000	
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573	
-0.7789	-0.3521	0.1556	0.6361	0.9340	
0.9769	0.6591	-0.3074	-0.9816	-0.6674	
0.2135	-0.7521	-0.9516	-0.1908	0.7447	
278	188	162	205	303	
1713	1830	1966	2267	2510	
2912	2290	1994	1619	1442	
2384	1722	1478	1400	1428	
0.22	0.33	0.35	0.16	0.01	
0.20	0.28	0.30	0.15	0.01	

A72								
	Chronic TV	S at A72			Pr	edicction E	quation Co	efficients
	a2 b	2			l	Hardness		
Cd	-3.49	0.7852		В		0.006		
Cu	-1.485	0.8545		In	tercept	82.304		
Mn	4.785	0.5434		В	Q	200.676		
Zn	0.7614	0.8473		siı	n	16.936		
				CC	S	48.860		
				siı	n1	15.385		
				CC	s1	-5.633		
	Month	J	F	М	Α	М	J	J
	Q	64	63	77	155	682	1196	624
	Hardness	277	290	268	196	91	53	72
	Fe	1000	1000	1000	1000	1000	1000	1000

M 34								
			Predic	tion equa	tion coeffic	cients		
		Hardness Alu	ıminum(Cadmium	Copper	Iron	Zinc	
	В	0.013	1.00	0.021	0.123	0.06521	0.021	
	Intercept	60.05228315	.10361	0.91724	14.65129	77.70523	205.25873	
	BQ .	205.02801338	.29032	0.60966	00.98354	70.29706	78.11589	
	sin	9.24827369	.03843	0.26911	14.16661	-89.38888	88.77920	
	cos	32.30173)79	.08681	0.20991	10.17487	38.04002	85.94018	
	sin1		.43127	-0.12214		86.24646		
	cos1					-12.30367		
	consent		.10754			35.80515		
	Consent	-200	.10754	-	10.75402	33.00313	-90.00376	
	MONTH	J	F	М	Α	М	j	J
	_	_	-				_	_
Avg monthly		22	22	28	58	266	468	243
	Hardness	255	241	226	170	86	60	76
Chronic Star	_i Fe	1000	1000	1000	1000	1000	1000	1000

A68 Anima	as at Silve	erton						
		Pre	diction	equation o	oefficients	i		
		Hardness Ca	dmium	Copper	Manganed	Zinc		
	В	0.011na		na	0.010	0.016		
	Intercept	37.945	2.395	5.783	258.473	304.617		
	BQ	165.600			1371.923	644.136		
:	sin		1.712	2.049	611.024	315.451		
	cos		0.140	0.729	81.662	-18.603		
	sin1		-0.250	-1.520	16.031	-33.783		
	cos1		-1.185	-0.472	-263.628	-140.108		
	May		-1.936	2.261	-258.699			
	consent		-0.714	-1.828	411.428	-67.174		
Animas R	Month	J	F	М	Α	М	J	J
	Q	25	25	31	66	329	585	300
	Hardness	168	168	161	134	74	60	76
	Cd,tvs	1.7	1.7	1.7	1.4	0.9	8.0	0.9
	Cu tvs	18	18	17	15	9	8	9
	Mn tvs	1935	1938	1895	1713	1240	1110	1264
nic stand	Fe	1000	1000	1000	1000	1000	1000	1000

ction Equation Coefficients

Α	S	0	Ν	D
268	187	142	92	70
124	158	182	215	248
1000	1000	1000	1000	1000

		Acute TVS	at M34 C	hronic TV	S at M34
		a2 b	2 a	3 b	3
Cd		-3.828	1.128	-3.49	0.7852
Cu		-0.7703	0.9422	-1.485	0.8545
Mn		4.4995	0.7893	4.785	0.5434
Zn		0.8904	0.8473	0.7614	0.8473
	Α	S	0	N	D
	103	71	53	33	25
	126	151	192	217	253
	1000	1000	1000	1000	1000

	C	hronic TV	S at A68		
	а	2 b	2		
Cd		-3.49	0.7852		
Cu		-1.485	0.8545		
Mn		4.785	0.5434		
Zn		0.7614	0.8473		
	Α	S	0	N	D
	122	82	60	38	28
	109	125	138	155	165
	1.2	1.4	1.5	1.6	1.7
	12	14	15	17	18
	1528	1650	1741	1854	1916
	1000	1000	1000	1000	1000